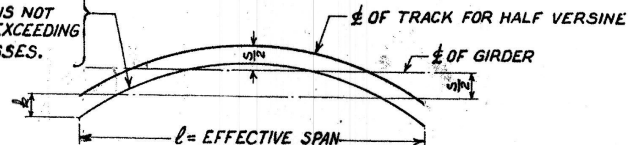


CURVED TRACK ON PLATE GIRDER BRIDGES (M. G. M. L.)

1/2 OF TRACK WITH FURTHER INWARD SHIFT WHEN LOCATION WITH HALF VERSINE IS NOT POSSIBLE WITHOUT EXCEEDING PERMISSIBLE STRESSES.



SPAN (m)	DEGREE OF CURVATURE	HALF VERSINE FOR THE EFFECTIVE SPAN $\frac{v}{4}$ IN (m.m)	LOCATION OF 1/2 OF TRACK WITH 1/2 OF GIRDER AT ENDS IN m.m	FURTHER SHIFT REQD. WHERE HALF VERSINE IS NOT POSSIBLE WITHOUT EXCEEDING PERMISSIBLE STRESS $\frac{v}{4}$ IN m.m.	REMARKS
6.1 (BA-564/M)	1°	2	19	17	1. IF THE EDGE OF BEARING PLATE UNDER THE RAIL PROJECTS BEYOND OUTER EDGE OF GIRDER FL. PAD PLATES OF REQD. SIZE SHOULD BE RIVETED TO THE GIRDER TO FASTEN THE SLEEPER 2. GIRDERS WHERE PAD PLATES ARE REQUIRED ARE SHOWN THUS * 3. PROJECTION OF THE SLEEPER SHOULD BE 150 mm BEYOND THE PAD PLATE. 4. THE REQUIRED STRENGTH OF SLEEPER SHOULD BE CHECKED WHEREVER NECESSARY. 5. THE STANDARD PLATE GIRDERS CAN BE USED ON CURVES BY LOCATING THE TRACK AS INDICATED IN THE DRAWING. 6. END CROSS FRAMES AND TOP & BOTTOM LATERAL BRACINGS FOR BRIDGES ON CURVES SHOULD BE DESIGNED AS PER CLAUSES 4.15 & 5.13 OF STEEL BRIDGE CODE.
	2°	3	28	25	
	3°	5	47	42	
	4°	7	66	59	
	5°	9	85	76	
	6°	10	55	45	
	7°	12	13	1	
	8°	14	14	—	
	9°	15	15	—	
	10°	17	17	—	
	11°	19	19	—	
	12°	21	21	—	
	13°	22	22	—	
	14°	24	24	—	
	15°	26	26	—	
	16°	27	27	—	
9.2 (BA-11022)	1°	4	22	18	
	2°	7	35	28	
	3°	11	56	45	
	4°	14	78	64	
	5°	18	100	82	
	6°	21	76	55	
	7°	25	68	41	
	8°	29	29	—	
	9°	32	32	—	
	10°	36	36	—	
	11°	39	39	—	
	12°	43	43	—	
	13°	47	47	—	
	14°	50	50	—	
	15°	64	54	—	
	16°	57	57	—	
12.2 (BA-11023)	1°	6	26	20	
	2°	12	43	31	
	3°	18	69	51	
	4°	25	96	71	
	5°	31	122	91	
	6°	37	104	67	
	7°	43	74	31	
	8°	49	49	—	
	9°	55	55	—	
	10°	61	61	—	
	11°	68	68	—	
	12°	74	74	—	
	13°	80	80	—	
	14°	86	86	—	
	15°	92	92	—	
	16°	98	98	—	

ALT. 1

CDS MF 4091/181 MICRO FILMED 11/85

1 NOTE ADDED	1-1-69
ALT. DESCRIPTION	DATE

R. D. S. O.

M. G. M. L. STANDARD.

CURVED TRACK

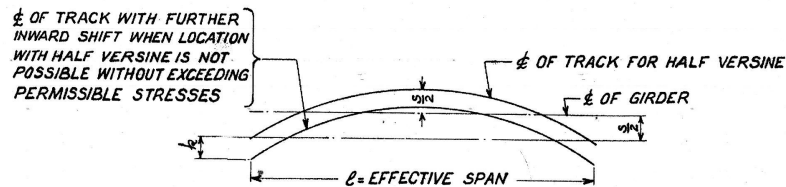
ON PLATE GIRDER BRIDGES

ADVANCE 10-3-68

BA-11027

CALCULATIONS REGISTER NO.	DRAWN BY	TRACED BY
PAGES	DONE BY	CHECKED BY
	CHECKED BY V.K. GUPTA	CHECKED BY

CURVED TRACK ON PLATE GIRDER BRIDGES (M.G. M.L.)



SPAN (m)	DEGREE OF CURVATURE	HALF VERSINE FOR THE EFFECTIVE SPAN ($\frac{\ell^2}{8}$) IN mm.	LOCATION OF δ OF TRACK w.r.t δ OF GIRDER AT ENDS IN mm.	FURTHER SHIFT REQD. WHERE HALF VERSION IS NOT POSSIBLE WITHOUT EXCEEDING PERMISSIBLE STRESSES ($\frac{\ell}{8}$) IN mm.	REMARKS
18.3 (BA-11024)	1°	13	39	26	1. IF THE EDGE OF BEARING PLATE UNDER THE RAIL PROJECTS BEYOND OUTER EDGE OF GIRDER FL. PAD PLATES OF REQUIRED SIZE SHOULD BE RIVETED TO THE GIRDER TO FASTEN THE SLEEPER. 2. GIRDERS WHERE "PAD PLATES ARE REQUIRED ARE SHOWN" THUS *. 3. PROJECTION OF THE SLEEPER SHOULD BE 150 mm BEYOND THE PAD PLATE. 4. THE REQUIRED STRENGTH OF SLEEPER SHOULD BE CHECKED WHEREVER NECESSARY. 5. THE STANDARD PLATE GIRDERS CAN BE USED ON CURVES BY LOCATING THE TRACK AS INDICATED IN THE DRAWING. 6. END CROSS FRAMES AND TOP & BOTTOM LATERAL BRACINGS FOR BRIDGES ON CURVES SHOULD BE DESIGNED AS PER CLAUSES 4-15 & 5-13 OF STEEL BRIDGE CODE.
	2°	27	65	38	
	3°	40	105	65	
	4°	54	145	91	
	5°	67	183	116	
	6°	81	175	94	
	7°	94	155	61	
	8°	108	130	22	
	9°	121	121	-	
	10°	135	135	-	
	11°	148	148	-	
	12°	162	162	-	
	13°	175	175	-	
	14°	189	189	-	
	15°	202	202	-	
	16°	216	216	-	
24.4 (BA-11025)	1°	23	55	32	
	2°	47	101	54	
	3°	70	155	85	
	4°	94	211	117	
	5°	117	266	149	
	6°	141	277	136	
	7°	164	273	109	
	8°	187	265	78	
	9°	211	265	54	
	10°	234	261	67	
	11°	258	306	48	
	12°	281	* 350	69	
	13°	305	* 383	58	
	14°	328	* 372	44	
	15°	351	* 422	71	
	16°	375	* 436	51	
5 (BA-11026)	1°	36	77	41	
	2°	73	144	71	
	3°	109	220	111	
	4°	145	297	152	
	5°	182	374	192	
	6°	218	403	185	
	7°	254	419	165	
	8°	291	431	140	
	9°	327	453	126	
	10°	363	508	145	
	11°	400	533	133	
	12°	436	* 597	161	
	13°	472	* 630	158	
	14°	509	* 661	152	
	15°	545	* 731	186	
	16°	581	* 766	185	

ALT. 1

CBS MF ADD 1/182 MICROFILMED 4/1/85

1 NOTE ADDED 1-1-69

ALT. DESCRIPTION DATE

R. D. S. O.

M. G. M. L. STANDARD

CURVED TRACK

ON PLATE GIRDER BRIDGES

ADVANCE-19-9-68

BA-11027/1